

**Amendments to the Claims:**

The following Listing of Claims will replace all prior versions and listings of claims in the application:

**Listing of Claims**

1. (Currently amended) A process for analyzing a biological sample, comprising the steps of:
  - (a) identifying a micro-organism present within the sample; and
  - (b) determining the effect of one or more antimicrobial(s) on a micro-organism from the sample, wherein determining the effect of one or more antimicrobial(s) comprises adding an antimicrobial at a pre-determined concentration to a sample, incubating the sample in the presence of the antimicrobial for a pre-determined time period under conditions that allow some growth of the micro-organism, and assessing the number of microorganisms in the sample at the end of the pre-determined time period;  
wherein identifying a micro-organism present in the sample comprises identifying a micro-organism species;  
wherein steps (a) and (b) are performed by analyzing the micro-organism's nucleic acid.
2. (Original) The process of claim 1, wherein step (a) involves a nucleic acid hybridization assay.
3. (Currently amended) The process of claim 1 ~~or claim 2~~, wherein step (b) involves a nucleic acid hybridization assay.
4. (Currently amended) The process of claim 1 ~~or claim 2~~, wherein step (a) and/or step (b) involves amplification of nucleic acid from the micro-organism.
5. (Original) The process of claim 4, wherein nucleic acid amplification uses the polymerase chain reaction.

6. (Previously presented) The process of claim 4, wherein nucleic acid amplification uses primers which are specific to a micro-organism of interest.
7. (Previously presented) The process of claim 1, wherein the micro-organism's DNA is analysed.
8. (Previously presented) The process of claim 1, wherein the micro-organism's RNA is analysed.
9. (Original) The process of claim 7 or claim 8, wherein said DNA or RNA is a rRNA or rDNA.
10. (Previously presented) The process of claim 1, wherein micro-organisms are extracted from the sample prior to step (a).
11. (Previously presented) The process of claim 10, wherein micro-organisms are extracted by immunomagnetic separation.
12. (Previously presented) The process of claim 1, wherein the antimicrobial(s) used in step (b) are selected based on the results of step (a).
13. (Previously presented) The process of claim 1, wherein step (b) involves a comparison with data obtained in step (a).
14. (Previously presented) The process of claim 1, wherein the micro-organism is a bacterium, a fungus, a parasite or a virus.
15. (Previously presented) The process of claim 1, wherein the antimicrobial is an antibiotic, an antimycotic or an antiviral.

16. (New) The process of claim 2, wherein the process comprises the use of a probe.
17. (New) The process of claim 16, wherein the probe is a labelled probe.
18. (New) The process of claim 1, wherein analyzing the microorganism's nucleic acid comprises determination of at least a part of the microorganism's genome sequence.
19. (New) The process of claim 1, wherein analyzing the microorganism's nucleic acid comprises determination of restriction fragment length polymorphism or amplified rDNA restriction analysis.